

## MODIS IOT Weekly Report

Mission Operations Days: 2001/195 to 2001/201

July 13, 2001 20:00:00 GMT to July 20, 2001 20:00:00 GMT

Note: The two SDSM calibrations forecasted in last week's report were incorrectly listed for day 192 instead of day 199.

### Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode

MODIS is in A-side Science Mode

Blackbody	A On; B Off	Nominal
Calibration Electronics	A On; B Off	Nominal
Control Processor	A On; B Off	Nominal
Door: Nadir	Unlatched, open	Nominal
Space View	Unlatched, open	Nominal
Solar Diffuser	Unlatched, closed	Nominal
FDDI Formatter	A On; B Off	Nominal
FDDI Port	A On; B Off	Nominal
FIFO Memory	1 & 2 On; 3 & 4 Off	Nominal
Format Processor	A On; B Off	Nominal
Power Supply: 1	On	Nominal
2	Off	Nominal
PV FPAs: VIS	A On; B Off	Nominal
NIR	A On; B Off	Nominal
SMIR	A On; B Off	Nominal
LWIR	A On; B Off	Nominal
PC FPA: LWIR	A On; B Off	Nominal
Radiative Cooler:		
Outgas Heaters	All Off	Nominal
LWIR FPA Heater	On	Nominal
SMIR FPA Heater	Off	Nominal
Scan Assembly	A On; B Off	Nominal
SDSM	Off	Nominal
SRCA	Off	Nominal
Survival Heaters: PS1	Enabled	Nominal
PS2	Enabled	Nominal
Timing Generator	A On; B Off	Nominal
Flight Software	Rev BD + 2 patches	Nominal
Inhibit Ids Set	None	Nominal
TMON 68	Enabled	Nominal
TMON 69	Disabled	Nominal

### This Week's Completed MODIS Activities:

Friday, July 13, 2001

194/22:00:00 ATC Set Blackbody temperature to 290K

Saturday, July 14, 2001

195/02:00:00 ATC Set Blackbody temperature to 295K  
195/02:00:30 ATC Set Blackbody duty cycle to FULL  
195/04:00:00 ATC Set Blackbody temperature to 300K  
195/06:00:00 ATC Set Blackbody temperature to 315K  
195/09:00:00 ATC Set Blackbody temperature to 270K  
195/09:00:30 ATC Set Blackbody duty cycle to THIRD

Sunday, July 15, 2001

196/05:00:00 ATC Set Blackbody temperature to 290K

Monday, July 16, 2001  
None

Tuesday, July 17, 2001  
None

Wednesday, July 18, 2001

199/21:20:28 ATC OA-16: SD/SDSM Screened  
199/22:59:21 ATC OA-15: SD/SDSM Open

Thursday, July 19, 2001  
None

Friday, July 20, 2001  
None

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

During the upcoming week, it is planned to collect an extra 20 minutes of DAY rate data while the spacecraft is over the night side of the Earth. Solar Diffuser calibrations will likely occur on Wednesday, although the precise times have not yet been determined.

Friday, July 20, 2001

None

Saturday, July 21, 2001

None

Sunday, July 22, 2001

None

Monday, July 23, 2001

None

Tuesday, July 24, 2001

None

Wednesday, July 25, 2001

None

Thursday, July 26, 2001

None

#### Maneuvers:

The next MODIS Lunar Roll Calibration is scheduled for August 9, 2001 ( DOY 221 ) from 05:24:35 to 05:31:05. A second lunar calibration will be performed without a roll maneuver on the same day from 20:23:37 to 20:30:07.

#### MODIS Anomalies:

Investigation into the PS2 shutdown anomaly is still underway. An anomaly report is expected by the end of this month.

#### General Instrument Comments:

MODIS is in Science Mode on the A-side with the SVD and NAD open, operating with the Formatter Resolution Flight Software Patches (FRFSP).

#### MODIS Telemetry Trends:

Trending has resumed with the instrument on the A-side. All appears nominal at this time.

#### Non-MODIS Significant Events:

None.

Limited Life Item Status:

SRCA 10W Lamp #1: 189.0 of 500 hours

SRCA 10W Lamp #2: 144.7 of 500 hours

SRCA 10W Lamp #3: 153.9 of 500 hours

SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 557.9 of 4000 hours

SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1651 of 3022 Movements

Nadir Aperture Door: 532 of 1316 Movements

Space View Door: 437 of 1316 Movements